



P.B.5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
☎ +31 70 340 2040
TX 31651 epo.nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

European
Patent Office

Branch at
The Hague
Search
division

Office européen
des brevets

Département à
La Haye
Division de la
recherche

HOFFMANN - EITLE
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München
ALLEMAGNE

EINGEGANGEN

24. Jan. 2002

HOFFMANN - EITLE, MÜNCHEN
PATENTANWÄLTE RECHTSANWÄLTE

Datum/Date
24.01.02

Zeichen/Ref./Ref.

87 011 a/scho

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°

01107473.9-2207-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

MITSUBISHI DENKI KABUSHIKI KAISHA

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☐ title

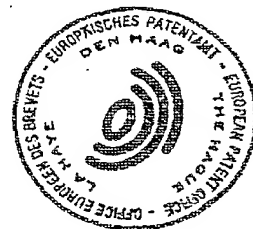
☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

1

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 10 7473

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	US 6 114 783 A (ASAO) 5 September 2000 (2000-09-05) * abstract * * column 1, line 12-43 * * column 2, line 19-59 * * column 3, line 7-51; figures 11,15-19 * ---	1-5	H02K5/173 F16C19/08
Y	GB 2 068 479 A (ROBERT BOSCH GMBH) 12 August 1981 (1981-08-12) * the whole document * ---	1-5	
A	PATENT ABSTRACTS OF JAPAN vol. 10, no. 213 (E-422), 25 July 1986 (1986-07-25) -& JP 61 052134 A (NIPPON DENSO CO LTD), 14 March 1986 (1986-03-14) * abstract; figures 1,5 * ---	1,2	
A	PATENT ABSTRACTS OF JAPAN vol. 17, no. 307 (E-1379), 11 June 1993 (1993-06-11) -& JP 05 022897 A (HITACHI LTD), 29 January 1993 (1993-01-29) * abstract; figures 1,2 * ---	1,2	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H02K F16C
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 December 1995 (1995-12-26) -& JP 07 227058 A (MITSUBISHI ELECTRIC CORP), 22 August 1995 (1995-08-22) * abstract; figures 1,5 * ---	6-8	
A	US 4 739 204 A (KITAMURA ET AL.) 19 April 1988 (1988-04-19) * abstract * * column 3, line 62 - column 4, line 8; figure 4 * -----	9	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 17 January 2002	Examiner Beitner, M
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

1

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 7473

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

17-01-2002

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6114783	A	05-09-2000	JP	3098223 B2	16-10-2000
			JP	2000166178 A	16-06-2000
GB 2068479	A	12-08-1981	DE	3002635 A1	30-07-1981
			JP	56109917 A	31-08-1981
JP 61052134	A	14-03-1986	JP	2082098 C	23-08-1996
			JP	8002162 B	10-01-1996
JP 05022897	A	29-01-1993	NONE		
JP 07227058	A	22-08-1995	NONE		
US 4739204	A	19-04-1988	JP	1781115 C	13-08-1993
			JP	4067429 B	28-10-1992
			JP	62178136 A	05-08-1987
			JP	1781116 C	13-08-1993
			JP	4067430 B	28-10-1992
			JP	62178137 A	05-08-1987
			JP	1867161 C	26-08-1994
			JP	5078259 B	28-10-1993
			JP	62178138 A	05-08-1987
			JP	62189938 A	19-08-1987
			JP	62213531 A	19-09-1987
			JP	62217836 A	25-09-1987
			JP	1781124 C	13-08-1993
			JP	4068850 B	04-11-1992
			JP	62217837 A	25-09-1987
			JP	62244243 A	24-10-1987
			DE	3751294 D1	14-06-1995
			DE	3751294 T2	19-10-1995
			DE	3780652 D1	03-09-1992
			DE	3780652 T2	18-02-1993
			EP	0231785 A2	12-08-1987
			EP	0480484 A2	15-04-1992